

## Patent Abstracts of Japan

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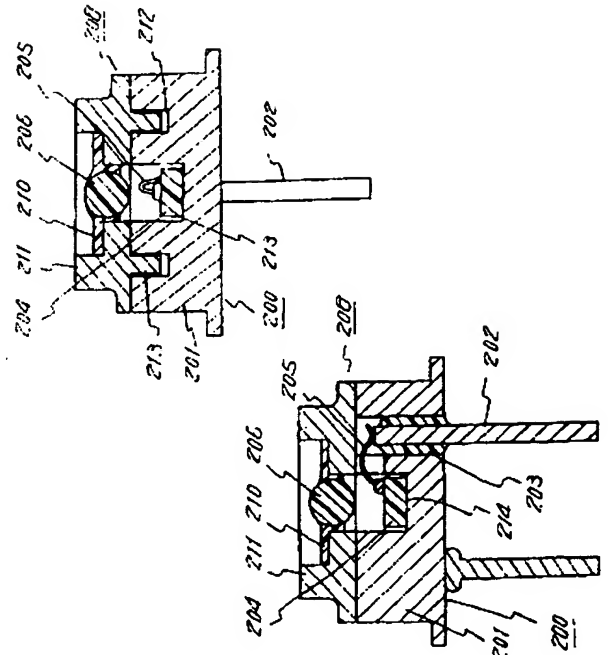
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APPLICANT : NEC CORP;

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TITLE : PHOTO SEMICONDUCTOR DEVICE



ABSTRACT : PURPOSE: To obtain a photo semiconductor device excellent in the efficiency of coupling with an optical fiber and in coupling tolerance by fixing a cap on a stem after forming projections and recesses for fitting on the mounting surface of each of the stem and the cap and then fitting both.

CONSTITUTION: The mounting recess for positioning at the time of fitting the photo semiconductor element 204 and the fitting recess 212 for positioning at the time of mounting the cap 208 are provided on a stem base 201. At the center, a spherical lens 206 made of glass, sapphire, or rubby, etc. is sealed in a wall member 211 with a glass 210, and the cap 208 with the fitting projection 213 for positioning at the time of mounting on the stem provided on the wall member 211 is fitted by the fitting projection 213 and the fitting recess 212 of the stem base 201, which is thereafter fixed on the stem base 201 by resistance welding, etc., so that the inside of the device is made hermetic.

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